

## SEQUENCE LISTING

<110> Brett P. Monia  
Andrew T. Watt

<120> ANTISENSE MODULATION OF INHIBITOR-KAPPA B-R EXPRESSION

<130> RTS-0302

<160> 89

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 1

tccgtcatcg ctcttcaggg

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 2

atgcattctg cccccaagga

20

<210> 3

<211> 7543

<212> DNA

<213> Homo sapiens

<220>

&lt;400&gt; 3

ctctgggctg tgccgtggcc caccgcaaga tcggagagcg cctggccgag atggaggact 60

acccggctgc ttgcaggtgc gggcgccctc actggcctcg tccagcccgg tcggcctctg 120

gagccctttt ctgaggaggg aggcctggtc ttcgccgtca ggagcctcgg gctggagggg 180

acacctgacc tgacgcagcc ttgccttcac cgccccgggc cagtctccgg tggggacccc 240

acagcctttc ctgggactgg ggcaggagta ggtttcctgg caccagaaac cattactgaa 300

cgttatttta gctgtgtttg tgttggggga ggtcaggccc catcccaaaa gctctccctg 360

accctggctg ctggaggcag gactgcaacc cccccgcaa ctcccagctg cccctcccca 420

cgtgacagcg ttggctgcat acagcgtgaa gccactgtca ccacagagag cccttggcat 480

gcagaggagg ggcacgtgtc tggccttggc ctgctctgtg ggggttaggg ggagcaggct 540

ctttccttag caagaacagg gtctctggga atctggcggt gccggtttgc ttgaggcgga 600

gtcggttac agcagtgact tccttcaca ctcagacca gcaccagtac ctggagctgg 660

cacattccct gcgcaaccac acggagctgc agagggcctg ggccaccatc ggccgcaccc 720

acctggacat ctatgaccac tgccagtcga gggatgcttt gctgcaggca caggctgcct 780

ttgagaagag cttggctatt gtggatgagg agttggaggg tgggcagacc cctccgcgtt 840

ttctgcctcc tgaacttcgg gccgaagagg ctgcagcca gcacccccgc agcctccttg 900

ggcaatcccg tcttctggag cctcccttt gcaaggctct tgtgtgaggg gtgcatgccc 960

cgtcaacct ttcccctgga gatcgtcagc tctttatcca ctctgtgctc catctgccgc 1020

aggacacttg caccacctc gggaggaggg agggggtagg agaggcgctg cacaggcccc 1080

aaatggggcc caaagctgga aacccatgt ggggaggaag tggctgagtg tttgggggtt 1140

tatcttcag ggacactggc ccaggagag ctgaatgaga tgaggacccg cctctatctc 1200

aacctgggcc tcaccttga gagcctgcag cagacagccc tgtgcaacga ttacttcagg 1260

aagagcatct tccttgcgga gtaaggccct gccccgctcc aggagggagt ggagtccctt 1320  
gttcctggag gaagtagtta ggggagtatt tttcccagag tcctcctgag agagcagtct 1380  
ggctgggcct catcccccca cctctcacac ctgtgccaca cactgggaga aggccaggca 1440  
tggttagggc cctgagacca cagcatggca gggctggggc ccgtgtggca tcagcagctg 1500  
tcatggacac tcctgggtgc tcagtggtcg tcacccctct gcaggcagaa ccacctttac 1560  
gaggacctat tccgcgcccg ctacaacctg ggcaccatcc actggcgcgcg gggccagcac 1620  
tcccaggcta tgcgctgctt ggagggtgcc cgggagtgtg cgcacaccat gaggaagcgg 1680  
ttcatggaga gcgagtgtg ctgtggttatt gcacaggtac ccgctgtgcg tggctccgag 1740  
ctcaggctct cgtagattcg ggccttgggg attctgcaaa acctttgctg tcctttgctc 1800  
tccaggtcct ccaagacctg ggagactttt tggctgccaa gcgagccctg aagaaggcct 1860  
acaggctggg ctcccagaag cctgtgcaga gggcagccat ctgtcagaac ctccagcatg 1920  
gtgagcctgg ggggccgaat ggggccctgg gaggtgtgtg caggggtgag cctgggggcg 1980  
gggtgtagtc ccgccaggtg tgtacagggc tctctccctc acagaggagg cctgagcacc 2040  
tgtccttggg ggcagcagct tcagcaagag gggcaggtac ccctacttcc tgacaggaga 2100  
agacccctt ttttctctga gctcaacaca gtgtgtcagg ggcaatgaaa gggcgggcag 2160  
gagaccagct gggcttttat ttcgcagcca ccatcttcat tggcaaactg gagacagtag 2220  
ttgtaccct agcctcccag ggtgggagag gagatggcac gcgtgggtcca ggagtgtga 2280  
tggcagagac caccattgga ggttggcagc cgtcagccct cactttgatg ccaggcacca 2340  
tccatgttgt gttgtttttt tttcttgaga tggagtctcg ctctgtcacc caggctggag 2400  
tgcagtggca tgatctcggc tcaactgaag ctctgcttcc cgggttcagc ccattctcct 2460  
gcctcagcct cccgagtagc tgggactaca ggtgcccgcc accacacccg gctgattttt 2520  
tgtattttta gtagagacga ggtttcacca tgttagccag gatgggtctcg atctcctgac 2580

ctcatgatct gcccgccctcg gcctcccaaa gtcctaggat tacaggcgtg agccactgta 2640  
cctggccccc agtttttaag tgtgttagtt cttgtgaccc ttgagaccag tccccaagat 2700  
agaccctgct attaaccccc acaccaacag gcaggcagag gtgtggagag agtggggggg 2760  
ccgccacagg gctcacagct tgcagggtgt agagctgggg tcaggggccc ctgtgctgcc 2820  
cccctgcatg aacctcttcc cggcagtgtc ggagtggtc cggctgcagc aacagctgga 2880  
agaggctgag ggcagagacc ctgagggtgc catggtcatc tgtgagcagc taggggacct 2940  
cttctccaag gcaggagact tccccagggc agctgaggct taccagaagc aggtgtgtgg 3000  
ccccggctgg gtgggagggg agggccagtg aggttgacga ggccctggcca ggggtggcagc 3060  
ccctggcctc actggcactg cccccagctg cgttttgctg agctgctgga cagaccgggt 3120  
gctgagcggg ccatcatcca cgtgtccctg gccaccacac tgggagacat gaaggaccac 3180  
catggggccg tgcgccacta tgaggaggaa ctgaggctgc gcagcggcaa cgtgctggag 3240  
gtgaaacctt tgctccccgc ccgaatgcag gttcacccat gtctctgcct caggactgcc 3300  
gttctcaggg tggccatgga caggtgtcct tactggacgg gcagctcctt cctaggacca 3360  
tccacctcgc gcagctggga ggccgggctc ccatttcgtc tgggcagccg gggaagcttg 3420  
actggggccc gttggacgca gacagcggca gccccgacc ctgtccttcc tcctgctcca 3480  
ggaggccaag acctggctga acattgcact gtcccgcgag gaggccggcg atgcctacga 3540  
gctgctggcc ccgtgcttcc agaaagcgct cagctgtgct cagcaggccc agcgtgcca 3600  
gctgcagggt cgagacgcca tcccacccat actggctccc cagtgcagccc agcttcgttg 3660  
cagcctgcct gcccttgtg ccccatcccc atctttctct gcgccacag ccccagtc 3720  
tgagctgagc atccctctgc tcctcagagg caggtcttgc agcatctcca taccgtgcag 3780  
ctgaggctgc agccccagga ggcccctgag accgaaacca gactgcggga gctcagtgtg 3840  
gctgaagatg aagatgagga ggaggaggcg gaggaggcg cagccacagc ggagagcgaa 3900

C  
O  
S  
E  
Q  
U  
E  
N  
C  
E

gccctggagg ccggcgaggt ggagctctca gagagcgggtg agggccagcg gcaccttgca 3960  
tttccctggg cctgctctgg gccgggctgg agaggggtgt gctgtgctgc tgtggagcct 4020  
gcttagggct gtagcaggaa cagccacagg caggcaggac ggccagtgtt tccccggaac 4080  
tggacagaga aggtggtgac ccgcagagcc tggggcggcc ttggctcctg gaggagacag 4140  
tggttgggag tcgagttagt gtcagctggg gcatgggtccc gttagagagg cacgtgccat 4200  
ctggggccgg ggggtgagacg gtgcactttg aagagcyccg gctgcctctg caagagcgtg 4260  
agcaccttcc tgaaaccctt cagagcaggc ttgggtttcc tccagaggct ggcgacatca 4320  
gctgcacgga gggcaggcat gagggactgg ctggagcggg gcttggactg aagccatctt 4380  
ggccgtggta cagggagaga gggctgagag cgggggttagc gggtagctgg gaggctgggt 4440  
tctgactgag tgggtgggtg caggagcctg tccatgaggc ctgttggggg gtgttccagg 4500  
gaaggctgtg acttcagctc tgaactcgag ggcgtcggtta gaacctgag tggccaggca 4560  
gctgtgggaa gttggggcct tgccaggttg gttgctgggg ggaggtggat caggatctag 4620  
aattttgggg aatgctgctc agctggtggg cacagtgagg agctgtggaa agaccagag 4680  
gcagctggca ggggtgtgaag ggcgtggtga tgaggggtca cccgaagcag ggacggaggc 4740  
gggtgtgtct gctgcctagg cagggtggag gctgcaaggc gcaggatacc caggctccag 4800  
ggctgacctg gcctgacgac acagctcagg agatgggggt ggataaggcg tggggtggag 4860  
gaagactggc ccacgagccg gtctgggcgt ggggatgagt ggctggcgca tggacagagg 4920  
gggcctcggg caggccttct gtgggagggc caggcgtggg ttagggcaga aagctcaggg 4980  
gtgtgtctca agtgggcaga gggatggtgg gcaggagcag ggtcccagca gggtcaggga 5040  
gacatgggag gcagcgctgg gaccattgct gaggagcccc cagagcccag cagcctcaga 5100  
gtcagccct ccgctctctg gctcctttgt acctgggagt ttggggagct tgcagcaggg 5160  
tgggggctgc taaccttcac ctcccacgga ctcccctggg gtgggcttgg ctctgttcca 5220

gaggacgaca ccgatggcct gaccccgag ctggaggagg acgaggagct tcagggccac 5280  
ctgggccggc ggaaggggag caaggtgagg acaagtagcc ctgccccac ccaccccgct 5340  
cagcagccct gccagctcct caccgcccctg ccctgtgctg ggttggtgtg gccacagtg 5400  
gaaccggcga aacgacatgg gggagaccct gctgcaccga gcctgcatcg agggccagct 5460  
gcgccgctc caggaccttg tgaggcaggt gggccccgct ctgggacgtg ggacaggctg 5520  
cctagcacgg aggagctgtg cgtttgtgcc ggatccccta tctctgtaac tctcaacttc 5580  
ctcatcttca aaatggggcc ccttagcaag catggtggca cttgcctgtg gtcctagagg 5640  
caggaggatc acgtcatcct gggagggaga ttgaggctgc aggagtgcg atcatgccac 5700  
tgactccag cctgggcaac acagtgagac cctgtttcaa aaaaatttaa aaagcggggg 5760  
ctgcacgggg tggcttatgc ctgtaatccc agcactttgg gatgccaagg caggcagatc 5820  
acatgagccc aggagtcca gaccagcctg ggcaccctgg caagaccttg tctccaagaa 5880  
atttaaaaat taggtggatg tgatggcgtg tgcctgtagt actacagctg ctttggaggt 5940  
tgaggtgga gggttgcttg agcctaggag gtggaggctg cagtgagcca tgatcttgcc 6000  
actgcactcc aacctgtgtg acagagcaag acctgtctc agaagaaaag ccacaggccg 6060  
ggtacagtgg cttatgtcta taatcctagc actttgggag gctgaggcgg ggggattgca 6120  
tgaggtcagg agtttgagac cagtctggct aacatggtga aacctgtct ctactaaaaa 6180  
tacaaaaata ttagctgggt atggtggcac atacctgtag tcccagctac tcgggaggct 6240  
gaggcaggag aatcgcttga acctgggagg cgagggttc gatgagatga gattgcgccg 6300  
ctgcactcca gcctgggtga cagagcgaga ctctgtctca aaaaaaaca caaaaaatg 6360  
gggtgccag gctgggcgcg gtggttcata cctgtaatcc cagcactttg ggaggccaag 6420  
gtgggcagat cagcaggtca ggagcttgag accagcctgg ctggtctcaa aaaaaaatg 6480  
gggtacctgc tgtgtggtat gcatctgtgt tacagctaag ttggtcagcc tggccaggat 6540

gggggctagc ccatgggctg agatctgggc accttcctgc cccgcctgcc tcatgccct 6600  
gcgaccaggt gcactgtctc cccacaagg gaccgggcag gcacagaggc ggaggatatg 6660  
ctgtggctgg tccacctgtc tcaggggaa gcatgtcctt cactggtgac acctaggccg 6720  
gaggaggaga gggcagggcc acggacttgc tctgggctct aagactgagg ccctgggctc 6780  
agcttaggct gcagagctca cggggctggg gccaggctgt gaggtacaca gggccaggct 6840  
ccttcctgtc cttggtcaca ggccacccc cttaaccctc gggactactg tggctggaca 6900  
cctctgcacg aggcctgcaa ctacgggcat ctaggtgagc aaggacaga aggagcctgg 6960  
cgcaccttg tggacacgtg gggcgaagag tcagtcttg cggggcatcg ggagctgggc 7020  
ttacgtctcc tggctcgcag aaattgtccg ctctctgtg gaccacgggg ccgcagtgga 7080  
cgaccaggt ggccagggt gcgaaggcat cccccctc cacgatgcc tcaactgtgg 7140  
ccacttcgag gtggctgagc tgctgctga acggggggcg tccgtcacc tccgcactcg 7200  
aaaggtgagc ctggtggggc agagggcaag ggcgaggta tgggggctgc tgtgccctg 7260  
ctcaactgat gccacacagg gcctcagccc gctggagacg ctgcagcagt gggatgaagct 7320  
gtaccgcagg gacctggacc tggagacgag gcagaaggcc agggccatgg agatgctgct 7380  
ccaggcggct gcctcgggcc aaggcaagca gggcgccctc tgcctctggg gttgctgtgc 7440  
ctacgtgag agtccccggg ccctgatttc gggagatgct ccatcacagg tggagcggga 7500  
ggtgccgggc ccctgcctca acacgcatc tctctccac aga 7543

&lt;210&gt; 4

&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR Primer

<400> 4  
gcacccacct ggacatctat g 21

<210> 5  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 5  
tcatccacaa tagccaagct ctt 23

<210> 6  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 6  
actgccagtc gagggatgct ttgct 25

<210> 7  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 7  
gaaggtgaag gtcggagtc 19

<210> 8  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 8  
gaagatggtg atgggatttc 20

<210> 9  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 9  
caagcttccc gttctcagcc 20

<210> 10  
<211> 2525  
<212> DNA  
<213> Homo sapiens

<220>

<220>  
<221> CDS  
<222> (849)...(2298)

<400> 10  
ctctgggctg tgccgtggcc caccgcaaga tcggagagcg cctggccgag atggaggact 60  
accgggtgc ttgcaggtgc gggcgccctc actggcctcg tccagcccgg tcggcctctg 120  
gagccctttt ctgaggaggg aggcctggtc ttcgccgtca ggagcctcgg gctggagggg 180

RTS-0302

-10-

# PATENT

acacctgacc tgacgcagcc ttgccttcac cgccccgggc cagtctccgg tggggacccc 240

acagcctttc ctgggactgg ggcaggagta ggtttcctgg caccagaaac cattactgaa 300

cgttatTTTta gctgtgTTtg tgTtggggga ggtcaggccc catcccaaaa gctctccctg 360

accctggctg ctggaggcag gactgcaacc ccccgccaa ctcccagctg cccctcccca 420

cgtgacagcg ttggctgcat acagcgtgaa gccactgtca ccacagagag cccttggcat 480

gcagaggagg ggcacgtgtc tggccttggc ctgctctgtg ggggtaggg ggagcaggct 540

ctttccttag caagaacagg gtctctggga atctggcggg gccggtttgc ttgaggcgga 600

gtcgggttac agcagtgact tccttccaca ctcagcacca gcaccagtac ctggagctgg 660

cacattccct gcgcaaccac acggagctgc agagggcctg ggccaccatc ggccgcaccc 720

acctggacat ctatgaccac tgccagtcga gggatgcttt gctgcaggca caggctgcct 780

ttgagaagag cttggctatt gtggatgagg agttggaggg gacactggcc cagggagagc 840

tgaatgag atg agg acc cgc ctc tat ctc aac ctg ggc ctc acc ttt gag 890

Met Arg Thr Arg Leu Tyr Leu Asn Leu Gly Leu Thr Phe Glu

10

agc ctg cag cag aca gcc ctg tgc aac gat tac ttc agg aag agc atc 938

Ser Leu Gln Gln Thr Ala Leu Cys Asn Asp Tyr Phe Arg Lys Ser Ile

30

ttc ctt gcg gag cag aac cac ctt tac gag gac cta ttc cgc gcc cgc 986

Phe Leu Ala Glu Gln Asn His Leu Tyr Glu Asp Leu Phe Arg Ala Arg

45

tac aac ctg ggc acc atc cac tgg cgc gcg ggc cag cac tcc cag gct 1034

Tyr Asn Leu Gly Thr Ile His Trp Arg Ala Gly Gln His Ser Gln Ala

60

atg cgc tgc ttg gag ggt gcc cgg gag tgt gcg cac acc atg agg aag 1082

Met Arg Cys Leu Glu Gly Ala Arg Glu Cys Ala His Thr Met Arg Lys

75

cgg ttc atg gag agc gag tgc tgc gtg gtt att gca cag gtc ctc caa 1130

Arg Phe Met Glu Ser Glu Cys Cys Val Val Ile Ala Gln Val Leu Gln

項目	単位	数量	金額	備考
1. 雑費	円	100	100	
2. 雑費	円	100	100	
3. 雑費	円	100	100	
4. 雑費	円	100	100	
5. 雑費	円	100	100	
6. 雑費	円	100	100	
7. 雑費	円	100	100	
8. 雑費	円	100	100	
9. 雑費	円	100	100	
10. 雑費	円	100	100	
11. 雑費	円	100	100	
12. 雑費	円	100	100	
13. 雑費	円	100	100	
14. 雑費	円	100	100	
15. 雑費	円	100	100	
16. 雑費	円	100	100	
17. 雑費	円	100	100	
18. 雑費	円	100	100	
19. 雑費	円	100	100	
20. 雑費	円	100	100	
21. 雑費	円	100	100	
22. 雑費	円	100	100	
23. 雑費	円	100	100	
24. 雑費	円	100	100	
25. 雑費	円	100	100	
26. 雑費	円	100	100	
27. 雑費	円	100	100	
28. 雑費	円	100	100	
29. 雑費	円	100	100	
30. 雑費	円	100	100	
31. 雑費	円	100	100	
32. 雑費	円	100	100	
33. 雑費	円	100	100	
34. 雑費	円	100	100	
35. 雑費	円	100	100	
36. 雑費	円	100	100	
37. 雑費	円	100	100	
38. 雑費	円	100	100	
39. 雑費	円	100	100	
40. 雑費	円	100	100	
41. 雑費	円	100	100	
42. 雑費	円	100	100	
43. 雑費	円	100	100	
44. 雑費	円	100	100	
45. 雑費	円	100	100	
46. 雑費	円	100	100	
47. 雑費	円	100	100	
48. 雑費	円	100	100	
49. 雑費	円	100	100	
50. 雑費	円	100	100	
51. 雑費	円	100	100	
52. 雑費	円	100	100	
53. 雑費	円	100	100	
54. 雑費	円	100	100	
55. 雑費	円	100	100	
56. 雑費	円	100	100	
57. 雑費	円	100	100	
58. 雑費	円	100	100	
59. 雑費	円	100	100	
60. 雑費	円	100	100	
61. 雑費	円	100	100	
62. 雑費	円	100	100	
63. 雑費	円	100	100	
64. 雑費	円	100	100	
65. 雑費	円	100	100	
66. 雑費	円	100	100	
67. 雑費	円	100	100	
68. 雑費	円	100	100	
69. 雑費	円	100	100	
70. 雑費	円	100	100	
71. 雑費	円	100	100	
72. 雑費	円	100	100	
73. 雑費	円	100	100	
74. 雑費	円	100	100	
75. 雑費	円	100	100	
76. 雑費	円	100	100	
77. 雑費	円	100	100	
78. 雑費	円	100	100	
79. 雑費	円	100	100	
80. 雑費	円	100	100	
81. 雑費	円	100	100	
82. 雑費	円	100	100	
83. 雑費	円	100		

80	85	90	
gac ctg gga gac ttt ttg gct gcc aag cga gcc ctg aag aag gcc tac			1178
Asp Leu Gly Asp Phe Leu Ala Ala Lys Arg Ala Leu Lys Lys Ala Tyr			
95	100	105	110
agg ctg ggc tcc cag aag cct gtg cag agg gca gcc atc tgt cag aac			1226
Arg Leu Gly Ser Gln Lys Pro Val Gln Arg Ala Ala Ile Cys Gln Asn			
	115	120	125
ctc cag cat gtg ctg gca gtg gtc cgg ctg cag caa cag ctg gaa gag			1274
Leu Gln His Val Leu Ala Val Val Arg Leu Gln Gln Gln Leu Glu Glu			
	130	135	140
gct gag ggc aga gac cct cag ggt gcc atg gtc atc tgt gag cag cta			1322
Ala Glu Gly Arg Asp Pro Gln Gly Ala Met Val Ile Cys Glu Gln Leu			
	145	150	155
ggg gac ctc ttc tcc aag gca gga gac ttt ccc agg gca gct gag gct			1370
Gly Asp Leu Phe Ser Lys Ala Gly Asp Phe Pro Arg Ala Ala Glu Ala			
	160	165	170
tac cag aag cag ctg cgt ttt gct gag ctg ctg gac aga ccg ggt gct			1418
Tyr Gln Lys Gln Leu Arg Phe Ala Glu Leu Leu Asp Arg Pro Gly Ala			
	175	180	185
gag cgg gcc atc atc cac gtg tcc ctg gcc acc aca ctg gga gac atg			1466
Glu Arg Ala Ile Ile His Val Ser Leu Ala Thr Thr Leu Gly Asp Met			
	195	200	205
aag gac cac cat ggg gcc gtg cgc cac tat gag gag gaa ctg agg ctg			1514
Lys Asp His His Gly Ala Val Arg His Tyr Glu Glu Glu Leu Arg Leu			
	210	215	220
cgc agc ggc aac gtg ctg gag gag gcc aag acc tgg ctg aac att gca			1562
Arg Ser Gly Asn Val Leu Glu Glu Ala Lys Thr Trp Leu Asn Ile Ala			
	225	230	235
ctg tcc cgc gag gag gcc ggc gat gcc tac gag ctg ctg gcc ccg tgc			1610
Leu Ser Arg Glu Glu Ala Gly Asp Ala Tyr Glu Leu Leu Ala Pro Cys			
	240	245	250
ttc cag aaa gcg ctc agc tgt gct cag cag gcc cag cgt gcc cag ctg			1658
Phe Gln Lys Ala Leu Ser Cys Ala Gln Gln Ala Gln Arg Ala Gln Leu			

255	260	265	270	
cag agg cag gtc ttg cag cat ctc cat acc gtg cag ctg agg ctg cag				1706
Gln Arg Gln Val Leu Gln His Leu His Thr Val Gln Leu Arg Leu Gln				
275	280	285		
ccc cag gag gcc cct gag acc gaa acc aga ctg cgg gag ctc agt gta				1754
Pro Gln Glu Ala Pro Glu Thr Glu Thr Arg Leu Arg Glu Leu Ser Val				
290	295	300		
gct gaa gat gaa gat gag gag gag gag gcg gag gag gcg gca gcc aca				1802
Ala Glu Asp Glu Asp Glu Glu Glu Glu Ala Glu Glu Ala Ala Ala Thr				
305	310	315		
gcg gag agc gaa gcc ctg gag gcc ggc gag gtg gag ctc tca gag agc				1850
Ala Glu Ser Glu Ala Leu Glu Ala Gly Glu Val Glu Leu Ser Glu Ser				
320	325	330		
gag gac gac acc gat ggc ctg acc ccg cag ctg gag gag gac gag gag				1898
Glu Asp Asp Thr Asp Gly Leu Thr Pro Gln Leu Glu Glu Asp Glu Glu				
335	340	345	350	
ctt cag ggc cac ctg ggc cgg cgg aag ggg agc aag tgg aac cgg cga				1946
Leu Gln Gly His Leu Gly Arg Arg Lys Gly Ser Lys Trp Asn Arg Arg				
355	360	365		
aac gac atg ggg gag acc ctg ctg cac cga gcc tgc atc gag ggc cag				1994
Asn Asp Met Gly Glu Thr Leu Leu His Arg Ala Cys Ile Glu Gly Gln				
370	375	380		
ctg cgc cgc gtc cag gac ctt gtg agg cag ggc cac ccc ctt aac cct				2042
Leu Arg Arg Val Gln Asp Leu Val Arg Gln Gly His Pro Leu Asn Pro				
385	390	395		
cgg gac tac tgt ggc tgg aca cct ctg cac gag gcc tgc aac tac ggg				2090
Arg Asp Tyr Cys Gly Trp Thr Pro Leu His Glu Ala Cys Asn Tyr Gly				
400	405	410		
cat cta gaa att gtc cgc ttc ctg ctg gac cac ggg gcc gca gtg gac				2138
His Leu Glu Ile Val Arg Phe Leu Leu Asp His Gly Ala Ala Val Asp				
415	420	425	430	
gac cca ggt ggc cag ggc tgc gaa ggc atc acc ccc ctc cac gat gcc				2186
Asp Pro Gly Gly Gln Gly Cys Glu Gly Ile Thr Pro Leu His Asp Ala				

435

440

445

ctc aac tgt ggc cac ttc gag gtg gct gag ctg ctg ctt gaa cgg ggg 2234  
 Leu Asn Cys Gly His Phe Glu Val Ala Glu Leu Leu Leu Glu Arg Gly  
 450 455 460

gcg tcc gtc acc ctc cgc act cga aag ggc ctc agc ccg ctg gag acg 2282  
 Ala Ser Val Thr Leu Arg Thr Arg Lys Gly Leu Ser Pro Leu Glu Thr  
 465 470 475

ctg cag cag tgg gtg aagctgtacc gcagggacct ggacctggag acgcggcaga 2337  
 Leu Gln Gln Trp Val  
 480

aggccagggc catggagatg ctgctccagg cggctgcctc gggccaaggc aagcagggcg 2397

tcccttgctc ctggggttgc tgtgcctacg ctgagagtcc ccgggccctg atttcgggag 2457

atgctccatc acaggtggag cgggaggtgc cggggccctg cctcaacacg cattctctct 2517

cccacaga 2525

<210> 11

<211> 1813

<212> DNA

<213> Homo sapiens

<220>

<220>

<221> CDS

<222> (325)...(1770)

<400> 11

aattcgcgta ctagccggac ttggattttc tggaaagatt tcagttgagg aacgggaaca 60

aagattatga tagctttccg accaccacca atttcaattt ccttagctgc cgtaatatca 120

gctccctgag ctgagccttg aggtccgagt tcatctccag ctccagaaga gcctgggaga 180

tgccggactc gaactcgtcc gcttctcgcc attgggcttc acgatcttgg cgctcgaact 240

gaacatggct tctcctttga gaagagcttg gctattgttg atgaggagct ggaggggaca 300

ctggcg	cagg	gagag	ctgaa	tgag	atg	agg	acc	cgc	ctc	tat	ctc	aac	ctg		351	
					Met	Arg	Thr	Arg	Leu	Tyr	Leu	Asn	Leu			
					1				5							
ggc	ctc	acc	ttt	gag	agc	ctg	cag	cag	aca	gcc	ctg	tgc	aac	gat	tac	399
Gly	Leu	Thr	Phe	Glu	Ser	Leu	Gln	Gln	Thr	Ala	Leu	Cys	Asn	Asp	Tyr	
10					15					20					25	
ttc	agg	aag	agc	atc	ttc	ctt	gcg	gac	gag	aac	cac	ctt	tac	gag	gac	447
Phe	Arg	Lys	Ser	Ile	Phe	Leu	Ala	Asp	Glu	Asn	His	Leu	Tyr	Glu	Asp	
				30					35					40		
cta	ttc	cgc	gcc	cgc	tac	aac	ctg	ggc	acc	atc	cac	tgg	cgc	gcg	ggc	495
Leu	Phe	Arg	Ala	Arg	Tyr	Asn	Leu	Gly	Thr	Ile	His	Trp	Arg	Ala	Gly	
			45					50					55			
cag	cac	tcc	cag	gct	atg	cgc	tgc	ttg	gag	ggt	gcc	cgg	gag	tgt	gcg	543
Gln	His	Ser	Gln	Ala	Met	Arg	Cys	Leu	Glu	Gly	Ala	Arg	Glu	Cys	Ala	
		60					65					70				
cac	acc	atg	agc	gaa	gcg	gtt	cat	gga	gag	cga	gtg	ctg	cgt	ggt	tat	591
His	Thr	Met	Ser	Glu	Ala	Val	His	Gly	Glu	Arg	Val	Leu	Arg	Gly	Tyr	
	75					80					85					
tgc	aca	ggt	cct	cca	aga	cct	ggg	aga	ctt	ttt	ggc	tgc	caa	gcg	agc	639
Cys	Thr	Gly	Pro	Pro	Arg	Pro	Gly	Arg	Leu	Phe	Gly	Cys	Gln	Ala	Ser	
90					95					100					105	
cct	gaa	gaa	gcg	cta	cag	gct	ggg	ctc	cca	gaa	gcc	tgt	gca	gag	ggc	687
Pro	Glu	Glu	Ala	Leu	Gln	Ala	Gly	Leu	Pro	Glu	Ala	Cys	Ala	Glu	Gly	
				110					115					120		
agc	cat	ctg	tca	gaa	cct	cca	gca	tgt	gct	gca	gtg	gtc	cgg	ctg	cag	735
Ser	His	Leu	Ser	Glu	Pro	Pro	Ala	Cys	Ala	Ala	Val	Val	Arg	Leu	Gln	
			125					130					135			
caa	cag	ctg	gaa	gag	gct	gag	ggc	aga	gac	cct	cag	ggt	gcc	atg	gtc	783
Gln	Gln	Leu	Glu	Glu	Ala	Glu	Gly	Arg	Asp	Pro	Gln	Gly	Ala	Met	Val	
		140					145					150				
atc	tgt	gag	cag	cta	ggg	gac	ctc	ttc	tcc	aag	gca	gga	gac	ttt	ccc	831
Ile	Cys	Glu	Gln	Leu	Gly	Asp	Leu	Phe	Ser	Lys	Ala	Gly	Asp	Phe	Pro	
155					160						165					

gct ctc aga gag cga gga cga cac cga tgg cct gac ccc gca gct gga 1359  
Ala Leu Arg Glu Arg Gly Arg His Arg Trp Pro Asp Pro Ala Ala Gly  
330 335 340 345

gga gga cga gga gct tca ggg cca cct ggg gcc gcc aag ggg agc aag 1407  
 Gly Gly Arg Gly Ala Ser Gly Pro Pro Gly Ala Ala Lys Gly Ser Lys  
 350 355 360

tgg aac cgg cga aac gac atg ggg gag acc ctg ctg cac cga gcc tgc 1455  
 Trp Asn Arg Arg Asn Asp Met Gly Glu Thr Leu Leu His Arg Ala Cys  
 365 370 375

atc gag ggc cag ctg cgc cgc gtc cag gac ctt gtg agg cag ggc cac 1503  
 Ile Glu Gly Gln Leu Arg Arg Val Gln Asp Leu Val Arg Gln Gly His  
 380 385 390

ccc ctt aac cct cgg gac tac tgt ggc tgg aca cct ctg cac gag gcc 1551  
 Pro Leu Asn Pro Arg Asp Tyr Cys Gly Trp Thr Pro Leu His Glu Ala  
 395 400 405

tgc aac tac ggg cat cta gaa att gtc cgc ttc ctg ctg gac cac ggg 1599  
 Cys Asn Tyr Gly His Leu Glu Ile Val Arg Phe Leu Leu Asp His Gly  
 410 415 420 425

gcc gca gtg gac gac cca ggt ggc cag ggc tgc gaa ggc atc acc ccc 1647  
 Ala Ala Val Asp Asp Pro Gly Gly Gln Gly Cys Glu Gly Ile Thr Pro  
 430 435 440

ctc cac gat gcc ctc aac tgt ggc cac ttc gag gtg gct gag ctg ctg 1695  
 Leu His Asp Ala Leu Asn Cys Gly His Phe Glu Val Ala Glu Leu Leu  
 445 450 455

ctt gaa cgg ggg gcg tcc gtc acc ctc cgc act cga aag gcc tca gcg 1743  
 Leu Glu Arg Gly Ala Ser Val Thr Leu Arg Thr Arg Lys Ala Ser Ala  
 460 465 470

cgc tgg aga cgc tgc agc agt ggg tga agctgtaccg cggagacctg 1790  
 Arg Trp Arg Arg Cys Ser Ser Gly  
 475 480

gactggagac gcgggcggaa ttc 1813

&lt;210&gt; 12

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 12

tcggaaagct atcataatct

20

<210> 13

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 13

atattacggc agctaaggaa

20

<210> 14

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 14

ctcagctcag ggagctgata

20

<210> 15

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

&lt;400&gt; 15

gaactcggac ctcaaggctc

20

&lt;210&gt; 16

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 16

gacgggattg cccaaggagg

20

&lt;210&gt; 17

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 17

actgagcacc caggagtgtc

20

&lt;210&gt; 18

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 18

gggccacaca cctgcttctg

20

&lt;210&gt; 19

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 19

ctacagccct aagcaggctc

20

<210> 20

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 20

tcctccagga gccaaaggccg

20

<210> 21

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 21

cctgagcttt ctgccctaac

20

<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

o

<223> Antisense Oligonucleotide

<400> 22

caggctggag tgcagtggca

20

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 23

acaggttgga gtgcagtggc

20

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 24

gtgcagcggc gcaatctcat

20

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 25

ttctgcagac caggagacgt

20

RTS-0302

<210> 26  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 26  
tccgatcttg cggtagggcca

20

<210> 27  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 27  
tgcagtcctg cctccagcag

20

<210> 28  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 28  
cggcaccgcc agattcccag

20

<210> 29  
<211> 20  
<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 29

agtcactgct gtaagccgac

20

<210> 30

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 30

gctccaggta ctggtgctgg

20

<210> 31

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 31

gccctctgca gctccgtgtg

20

<210> 32

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

&lt;400&gt; 32

aggccctctg cagctccgtg

20

&lt;210&gt; 33

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 33

tagatgtcca ggtgggtgcg

20

&lt;210&gt; 34

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 34

cgactggcag tggcataga

20

&lt;210&gt; 35

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 35

cacaatagcc aagctcttct

20

<210> 36  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 36  
cgggtcctca tctcattcag

20

<210> 37  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 37  
tgcacagggc tgtctgctgc

20

<210> 38  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 38  
ctgaagtaat cgttgcacag

20

<210> 39  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 39

gtgggttctgc tccgcaagga

20

<210> 40

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 40

cgtaaagggtg gttctgctcc

20

<210> 41

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 41

cggaataggt cctcgtaaag

20

<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 42

gtgcccaggt tgtagcgggc

20

<210> 43

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 43

cagcgcatag cctgggagtg

20

<210> 44

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 44

gcaccctcca agcagcgcat

20

<210> 45

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 45

tcctcatggt gtgcgcacac

20

<210> 46

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 46

catgaaccgc ttcctcatgg

20

<210> 47

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 47

agcactcgct ctccatgaac

20

<210> 48

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 48

tgcaataacc acgcagcact

20

<210> 49

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 49

cttgaggac ctgtgcaata

20

<210> 50

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 50

acaggcttct gggagcccag

20

<210> 51

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 51

gctgccctct gcacaggctt

20

<210> 52

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 52

ctggagggtc tgacagatgg

20

<210> 53  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 53  
ccagcacatg ctggagggttc

20

<210> 54  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 54  
ccggaccact gccagcacat

20

<210> 55  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 55  
gcagccggac cactgccagc

20

<210> 56  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 56

agcctcttcc agctgttgct

20

<210> 57

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 57

tgaccatggc accctgaggg

20

<210> 58

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 58

ctcacagatg accatggcac

20

<210> 59

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

&lt;400&gt; 59

ctgctcacag atgaccatgg

20

&lt;210&gt; 60

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 60

gggtcccctag ctgctcacag

20

&lt;210&gt; 61

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 61

gccttgagaga agagggtcccc

20

&lt;210&gt; 62

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 62

ctcctgcctt ggagaagagg

20

&lt;210&gt; 63

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 63

tgccctggga aagtctcctg

20

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 64

tcagctgccc tgggaaagtc

20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 65

caaaacgcag ctgcttctgg

20

<210> 66

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 66

ggtctgtcca gcagctcagc

20

<210> 67

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 67

gatgatggcc cgctcagcac

20

<210> 68

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 68

ccccatgggtg gtccttcacg

20

<210> 69

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 69

tcctcctcat agtggcgcac

20

<210> 70  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 70  
agttcctcct catagtggcg 20

<210> 71  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 71  
agcctcagtt cctcctcata 20

<210> 72  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 72  
tcttggcctc ctccagcacg 20

<210> 73  
<211> 20  
<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 73

caggtcttgg cctcctccag

20

<210> 74

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 74

gccaggtctt ggcctcctcc

20

<210> 75

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 75

ccagcagctc gtaggcatcg

20

<210> 76

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

&lt;400&gt; 76

ctgctgagca cagctgagcg

20

&lt;210&gt; 77

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 77

agacctgcct ctgcagctgg

20

&lt;210&gt; 78

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 78

gctgcaagac ctgcctctgc

20

&lt;210&gt; 79

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 79

agatgctgca agacctgcct

20

<210> 80  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 80  
ggagatgctg caagacctgc

20

<210> 81  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 81  
ctcagctgca cggtatggag

20

<210> 82  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 82  
gggctgcagc ctcagctgca

20

<210> 83  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 83

tgagctcccg cagtctggtt

20

<210> 84

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 84

gtgtcgtcct cgctctctga

20

<210> 85

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 85

gtacagcttc acccactgct

20

<210> 86

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 86

ccgcgtctcc aggtccaggt

20

<210> 87

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 87

cctgcttgcc ttggcccgag

20

<210> 88

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 88

gactctcagc gtaggcacag

20

<210> 89

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 89

tgatggagca tctcccgaaa

20